

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville 2960 Foster Creighton Drive Nashville, TN 37204 Tel: (615)726-0177

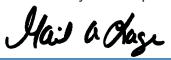
TestAmerica Job ID: 490-44944-1

Client Project/Site: Everett Terminal - Outfall 01 A

For:

Exxon Global Remed. Grp 52 Beacham Street Everett, Massachusetts 02149

Attn: Mallory Stanhope



Authorized for release by: 1/22/2014 4:00:46 PM

Gail Lage, Senior Project Manager (615)301-5741 gail.lage@testamericainc.com

·····LINKS ······

Review your project results through

Total Access

**Have a Question?** 



Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal - Outfall 01 A TestAmerica Job ID: 490-44944-1

# **Table of Contents**

Cover Page	1
Table of Contents	2
Sample Summary	3
Case Narrative	4
Definitions	5
Client Sample Results	6
QC Sample Results	7
QC Association	8
Chronicle	9
Method Summary	10
Certification Summary	11
Chain of Custody	12
Receipt Checklists	14

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# **Sample Summary**

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-44944-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-44944-1	Outfall 01 A-TSS - 1	Wastewater	01/20/14 14:53	01/22/14 08:30

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#### **Case Narrative**

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-44944-1

Job ID: 490-44944-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative 490-44944-1

#### Receipt

The samples were received on 1/22/2014 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was  $1.6^{\circ}$  C.

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# **Definitions/Glossary**

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin)

TestAmerica Job ID: 490-44944-1

#### Glossary

TEF

TEQ

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points

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# **Client Sample Results**

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-44944-1

Lab Sample ID: 490-44944-1

Matrix: Wastewater

Client Sample ID: Outfall 01 A-TSS - 1

Date Collected: 01/20/14 14:53 Date Received: 01/22/14 08:30

General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	10.7		1.33	0.933	mg/L			01/22/14 10:25	1

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## **QC Sample Results**

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-44944-1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 490-136776/1

**Matrix: Water** 

**Analysis Batch: 136776** 

MB MB

Result Qualifier RL MDL Unit Dil Fac Analyte D Prepared Analyzed Total Suspended Solids <0.700 1.00 0.700 mg/L 01/22/14 10:25

Lab Sample ID: LCS 490-136776/2

**Matrix: Water** 

Analysis Batch: 136776

Total Suspended Solids

Analyte

Spike Added 101

LCS LCS Result Qualifier 97.00

Unit mg/L

Limits %Rec 96

90 - 110

%Rec.

**Client Sample ID: Lab Control Sample** 

# **QC Association Summary**

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-44944-1

#### **General Chemistry**

#### Analysis Batch: 136776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-44944-1	Outfall 01 A-TSS - 1	Total/NA	Wastewater	SM 2540D	
LCS 490-136776/2	Lab Control Sample	Total/NA	Water	SM 2540D	
MB 490-136776/1	Method Blank	Total/NA	Water	SM 2540D	

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#### **Lab Chronicle**

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

Client Sample ID: Outfall 01 A-TSS - 1

TestAmerica Job ID: 490-44944-1

Lab Sample ID: 490-44944-1

Matrix: Wastewater

Date Collected: 01/20/14 14:53 Date Received: 01/22/14 08:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	SM 2540D		1	750 mL	1000 mL	136776	01/22/14 10:25	CRM	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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# **Method Summary**

Client: Exxon Global Remed. Grp

Project/Site: Everett Terminal - Outfall 01 A

TestAmerica Job ID: 490-44944-1

Method	Method Description	Protocol	Laboratory
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL NSH

#### **Protocol References:**

SM = "Standard Methods For The Examination Of Water And Wastewater",

#### Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

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TestAmerica Job ID: 490-44944-1

Client: Exxon Global Remed. Grp Project/Site: Everett Terminal - Outfall 01 A

#### Laboratory: TestAmerica Nashville

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	<b>Expiration Date</b>
A2LA	ISO/IEC 17025		0453.07	12-31-15
Alaska (UST)	State Program	10	UST-087	07-24-14
Arizona	State Program	9	AZ0473	05-05-14
Arizona	State Program	9	AZ0473	05-05-14 *
Arkansas DEQ	State Program	6	88-0737	04-25-14
California	NELAP	9	1168CA	10-31-14
Canadian Assoc Lab Accred (CALA)	Canada		3744	03-08-14
Connecticut	State Program	1	PH-0220	12-31-15
Florida	NELAP	4	E87358	06-30-14
Ilinois	NELAP	5	200010	12-09-14
owa	State Program	7	131	05-01-14
Kansas	NELAP	7	E-10229	10-31-14
Kentucky (UST)	State Program	4	19	06-30-14
_ouisiana	NELAP	6	30613	06-30-14
Maryland	State Program	3	316	03-31-14
Massachusetts	State Program	1	M-TN032	06-30-14
Minnesota	NELAP	5	047-999-345	12-31-14
Mississippi	State Program	4	N/A	06-30-14
Montana (UST)	State Program	8	NA	01-01-20
Nevada	State Program	9	TN00032	07-31-14
New Hampshire	NELAP	1	2963	10-10-14
New Jersey	NELAP	2	TN965	06-30-14
New York	NELAP	2	11342	04-01-14
North Carolina DENR	State Program	4	387	12-31-14
North Dakota	State Program	8	R-146	06-30-14
Ohio VAP	State Program	5	CL0033	10-16-15
Oklahoma	State Program	6	9412	08-31-14
Oregon	NELAP	10	TN200001	04-29-14
Pennsylvania	NELAP	3	68-00585	06-30-14
Rhode Island	State Program	1	LAO00268	12-30-14
South Carolina	State Program	4	84009 (001)	02-28-14
Tennessee	State Program	4	2008	02-23-14
Гехаs	NELAP	6	T104704077-09-TX	08-31-14
JSDA	Federal		S-48469	10-30-16
Jtah	NELAP	8	TN00032	07-31-14
/irginia	NELAP	3	460152	06-14-14
Vashington	State Program	10	C789	07-19-14
West Virginia DEP	State Program	3	219	02-28-14
Visconsin	State Program	5	998020430	08-31-14
Wyoming (UST)	A2LA	8	453.07	12-31-15

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 $<sup>^{\</sup>star}$  Expired certification is currently pending renewal and is considered valid.

TestAmerica Nashville

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

# **COOLER RECEIPT FORM**

490-44944 Chain of Custody
----------------------------

Cooler Received/Opened On <u>1/22/2014 @ 0830</u>	
I. Tracking #(last 4 digits, FedEx)	
Courier: FedEx IR Gun ID 12080142	
2. Temperature of rep. sample or temp blank when opened:/_/Degrees Celsius	-
3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank froze	n? YES NONA
I. Were custody seals on outside of cooler?	YE3NONA
If yes, how many and where:	)
5. Were the seals intact, signed, and dated correctly?	YESNONA
6. Were custody papers inside cooler?	(ESNONA
certify that I opened the cooler and answered questions 1-6 (intial)	CA.
7. Were custody seals on containers:  YES and Intact	YESNO
Were these signed and dated correctly?	YESNO. NA
3. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Pa	per Other None
). Cooling process: Ice Ice-pack Ice (direct contact) Dry	ice Other None
0. Did all containers arrive in good condition (unbroken)?	(ES)NONA
11. Were all container labels complete (#, date, signed, pres., etc)?	ES.NONA
2. Did all container labels and tags agree with custody papers?	YES .NONA
3a. Were VOA vials received?	YES NO.NA
b. Was there any observable headspace present in any VOA vial?	YESNO.
4. Was there a Trip Blank in this cooler? YESNO.	ence #
certify that I unloaded the cooler and answered questions 7-14 (intial)	msm
5a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH leve	el? YESNO
b. Did the bottle labels indicate that the correct preservatives were used	YESNO
6. Was residual chlorine present?	YESNO.
certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intia	d) man
7. Were custody papers properly filled out (ink, signed, etc)?	YES).NONA
8. Did you sign the custody papers in the appropriate place?	YES)NONA
9. Were correct containers used for the analysis requested?	XESNONA
20. Was sufficient amount of sample sent in each container?	ESNONA
certify that I entered this project into LIMS and answered questions 17-20 (intial)	mon
certify that I attached a label with the unique LIMS number to each container (intial)	<u> </u>
21. Were there Non-Conformance issues at login? YES. NO Was a NCM generated? YES	S. NO.)#

# THE LEADER IN ENVIRONMENTAL TESTING Nashville, TN 37204 merica 2960 Foster Creighton Nashville Division Toll Free: 800-765-0980 Phone: 615-726-0177 Fax: 615-726-3404

	Relinquished by			Relinquished by:		Laboratory case narative to NELAC institute standard protocol,	Comments/Special Instructions:							Outfall 01 A-TSS - 3	Outfall 01 A-TSS - 2	Outfall 01 A-TSS - 1	Sample ID or Field ID			Sampler Signature:	Sampler Name	Consultant Telephone Number: 617-381-2802		Consultant Proje	ExxonMobil Proje	2	Consultan
	Date	0. 1.80.	12 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Date	)								1	4 4		1.20 M 253	Date Sampled Time Sampled			nature: 1/2m	Sampler Name: (Print) Visoth Srang	lumber: 617-381-2802		Consultant Project Mgr: Triumvirate - Sandra Perry (Call Visoth at (317) 799 - 4357 for sample related questions)	ExxonMobil Project Mgr: Emest Hayes	Address: 52 beadtlain Sueet	Consultant Name: ExxonMobil Everett Terminal
	Time		キルスな	Time		RUSH TAT - 24 hour; See Gail Lage with any questions											No. of Containers Shipped	-					)	Perry (Cal			erminal
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	consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted TA Project Manager.  Date:	It will be the responsibility of ExxonMobil or its	Level 3	one)	VOCs Free of Headspace?	Temperature Upon Receipt / • Ce Sample Containers Intact?													Analyze For:						6111	#050c	
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1/22/2014

Loc: 490 **44944** 

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## **Login Sample Receipt Checklist**

Client: Exxon Global Remed. Grp Job Number: 490-44944-1

Login Number: 44944 List Source: TestAmerica Nashville

List Number: 1

Creator: McBride, Mike

Creator: McBride, Mike		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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